

AMENDMENTS TO THE SPECIFICATION:

Please replace the paragraph beginning at page 8, line 26 of the Specification with the following replacement paragraph:

--Bypass part 6 has a housing having a, for example, cuboid structure having a front wall 13 which, when installed, faces main flow direction 18 of the medium, and a rear wall 14 which faces away therefrom, a first sidewall 17 and a second sidewall 16 parallel thereto, and a third wall 19 on the end inserted into the line, which extends for example parallel to the main flow direction. Furthermore, part 6 has a channel structure situated in it, having an inlet area 27 and a measuring channel 40 which branches off from inlet area 27. A partial stream of the medium flowing in main flow direction 18 passes through an opening 21 on front side 13 of bypass part 6 into inlet area 27 of the channel structure. From inlet area 27, the medium partly passes into measuring channel 40 having measuring element 9, and partly flows on into a removal zone 28 which is situated behind the branching point for the measuring channel and which opens into through-channel 12 via at least one removal opening 33 situated in first sidewall 16 and/or second sidewall 17. In the case of the exemplary embodiment shown in Figure 1, main flow direction 18 is in a plane in which removal opening 33 is also situated. A first partial stream of the medium that has entered inlet area 27 flows completely into measuring channel 40 and exits it via outlet 39 in wall 19, and a second partial stream flows completely through removal opening [[39]] 33 back into line component 3. For example liquid and/or solid particles, e.g. oil or water particles, are present in the flowing medium which could soil or damage measuring element 9. Because of removal opening 33 and the geometric design of the channel structure in the inlet area, the liquid and solid particles do not pass into the measuring channel but rather flow back into line through-channel 12.--.

Please replace the paragraph beginning at page 9, line 24 of the Specification with the following replacement paragraph:

-- Furthermore, as shown in Figure 1, a flow diversion element 2 is situated in line component 3, and is situated directly upstream from bypass part 6 with respect to main flow direction 18. In this exemplary embodiment, flow diversion element 2 is manufactured separately from sensor device 1, as a separate component; however, it may also be connected to it as a single component. In Figure 1, flow diversion

element 2 and line component 3 are manufactured as a single component, as a plastic injection-molded component. The flow diversion element has a diversion surface 20 which faces main flow direction 18. As can be seen most clearly in Figure 3, starting from an apex line 25, which is at a distance from bypass part 6 in the opposite direction to the main flow direction, diversion surface 20 curves evenly on both sides toward the two sidewalls 16, 17 so that ends 38 of diversion surface 20 that face away from the apex line are aligned with sidewalls 16, 17 (ends 38 transition continuously into sidewalls 16 and 17 without forming an edge). This may be accomplished for example via a circular cylinder surface upstream from front surface 13. However, in the preferred exemplary embodiment shown here, diversion surface 20 is elliptically curved. As shown in Figure 4, small semi-axis b of elliptically curved diversion surface 20 is equal to half the distance between the two sidewalls 16, 17 of the bypass part. Large semi-axis a of elliptically curved diversion surface 20 is at least twice as long as small semi-axis b . Furthermore, flow diversion element 2 has a through-opening 26, which is aligned with opening 21 of inlet area 27 of the channel structure, so that a partial stream of the medium in main flow direction 18 passes through through-opening 26 and opening 21 into inlet area 27. As shown in Figure 2, the sides of through-opening 26 are delimited by walls 30, the outside of which form a part of curved diversion surface 20. In addition, on the side of bypass part 6 having removal opening 33, a guide wall 4 may be provided in line component 3 parallel to sidewall 16 and downstream from side 14 of bypass part 6 that faces away from front surface 13, and at least downstream from removal opening 33. Guide wall [[14]] 4 is not aligned with the sidewall, but rather is situated opposite and offset relative to the sidewall. Guide wall 4 prevents the flow from separating from sidewall 16 of bypass part 6 having removal opening 33 with even greater reliability.--.